# Coursework Report – 5COSC019C Object Oriented Programming

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video with the demonstration: https://drive.google.com/file/d/1HSvfuUz1-x76RGLGlB08orW-DEukCrAU/view?usp=sharing

Have you submitted the <u>video with the demonstration</u> of your system?  ☒ Yes  ☐ No

## Phase 1 – Design and classes implementation

| Task | Did you attempt the task? | Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?) |
|---|---|---|
| Design a UML Use Case Diagram of your system (submitted in a separate file). | ☒ Yes ☐ No | Completed |
| Design a UML Class Diagram of your system (submitted in a separate file). | ☒ Yes ☐ No | Completed |
| Implementation Class Person | ☒ Yes ☐ No | Completed |
| Implementation Class Doctor | ☒ Yes ☐ No | Completed |
| Implementation Class Patient | ☒ Yes ☐ No | Completed |
| Implementation Class Consultation | ☒ Yes ☐ No | Completed |
| Implementation Interface WestminsterSkinConsultationManager | ☒ Yes ☐ No | Completed |

## Phase 2 – Console menu implementation

| Task | Did you attempt the task? | Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?) |
|---|---|---|
| Add a doctor in the system with all the relative information (max 10 doctors) | ☒ Yes ☐ No | Completed |

| Delete a doctor from the system selecting the medical licence number. Display a message to confirm he/she has been removed and the total number of doctors in the centres. | ☒ Yes ☐ No | Completed |
|---|---|---|
| Print on the screen the list the doctors in the centre with all the relative information. The list should be ordered alphabetically. | ☒ Yes ☐ No | Completed |
| Save in a file entered by the user so far. The user should be able to load back the information running a new instance of the application. | ☒ Yes ☐ No | Completed |

## Phase 3 – GUI Implementation

| Task | Did you attempt the task? | Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?) |
|---|---|---|
| Doctor list visualisation. Sorting alphabetically. | ☒ Yes ☐ No | Completed |
| The user can select a doctor and add a consultation. | ☒ Yes ☐ No | Completed |
| In the consultation the user can add all the patient details. | ☒ Yes ☐ No | Completed |
| The user can select the date/time of the consultation considering that a doctor cannot have more than one consultation at the time. | ☒ Yes ☐ No | Completed |
| The user can enter and save the cost for the consultation. (£25 per hour and only the first one £15). | ☐ Yes ☒ No | I couldn't do that |
| The user can add some notes (text information or images). This information has been encrypted. | ☒ Yes ☐ No | Average. Images cannot be added and not encrypted. |

## Phase 4 – Testing and system validation

| Task | Did you attempt the task? | Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?) |
|---|---|---|
| Test plan. (Submitted in a separate file). | ☒ Yes ☐ No | Completed |
| Implementation of an automated unit test for each scenario in the console menu. | ☐ Yes ☒ No | Tried but couldn't |
| Error Handling across all the code, input validation and code quality. | ☒ Yes ☐ No | Expected |

# References

java - List an Array of Strings in alphabetical order - Stack Overflow
Java - Encapsulation (tutorialspoint.com)
Polymorphism in Java - javatpoint
java - JFrame: navigate to another frame using JButton - Stack Overflow
Java JTable - javatpoint